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LETTER DATED 22 APRIL 1998 FROM THE PERMANENT REPRESENTATIVE OF IRAQ TO THE UNITED NATIONS ADDRESSED TO THE PRESIDENT OF THE SECURITY COUNCIL

On instructions from my Government, I have the honour to transmit to you herewith a letter dated 22 April 1998 from Mr. Tariq Aziz, Deputy Prime Minister of Iraq, containing Iraq's reply to the biannual report of the Executive Chairman of the United Nations Special Commission (UNSCOM) submitted to the Security Council on 17 April 1998 (S/1998/332).

I should be grateful if you would have this letter and its annex, with the appendices thereto, circulated as a document of the Security Council.

(Signed) Nizar HAMDOON
Ambassador
Permanent Representative

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Annex

Letter dated 22 April 1998 from the Deputy Prime Minister of Iraq addressed to the President of the Security Council

We have read the biannual report submitted to the Security Council on 17 April 1998 and have studied its contents with great care and attention. This report blatantly fails to demonstrate objectivity and fairness, denies and misrepresents facts, and flouts the basic precepts of dealing with the issue of disarmament. The report tendentiously ignores everything that Iraq has done over the past seven years to comply with the provisions of section C of resolution 687 (1991). It is full of blatant falsehoods and lies and has been designed from the outset as a political document aimed at justifying the behaviour of the Special Commission in deliberately prolonging its mandate under resolution 687 (1991), tendentiously blaming Iraq and justifying continuation of the unjust embargo.

The early part of this month marked the passing of seven years since the adoption of resolution 687 (1991), which provided for the establishment of the Special Commission. Over these seven years, Iraq has made tremendous efforts to meet its obligations under the resolution. During this very long period, the Special Commission has been intensively engaged in countless activities (inspections, interviews, discussions, obtaining documents, high-level political meetings, destruction activities, etc.). However, this dubious report ignores these facts, giving the impression that nothing has been achieved.

Our assessment of the report is not an overstatement, but an objective and reasonable assessment. We would like to put before the Council the following key comments on the report:

1. The approach to assessing compliance with the remaining requirements of section C of resolution 687

The former Executive Chairman was not a friend to Iraq and showed no leniency in dealing with it. The Council is well aware of this, as is international public opinion. On 11 April 1997, the former Executive Chairman submitted his final report before leaving his post to be replaced, on 1 July 1997, by the present Executive Chairman, Richard Butler. The report dealt with the status of the substantive work of the Special Commission. Paragraph 46 of the report reads as follows:

> "The accumulated effect of the work that has been accomplished over six years since the ceasefire went into effect, between Iraq and the Coalition, is such that not much is unknown about Iraq's retained proscribed weapons capabilities."

In light of this assessment, we hoped that once the new Executive Chairman took over, we would work together to address what the former Chairman had termed "not much". This we would do over the course of a few months, paving the way for the implementation of paragraph 22 of resolution 687 (1991) and for the lifting of the unjust embargo against Iraq. The people of Iraq would be able to

lead a normal life, their extreme suffering would come to an end and other prohibitions would then be lifted. A year has passed since then, however, and despite everything that has been done (details of which are included in the appendices to this letter), Mr. Butler is now trying to divert attention from the April 1997 assessment and from the fundamental progress which Iraq has made over this busy year, depicting the situation as if nothing has been achieved.

This dubious report has even decided, without warning, to change the criteria and procedures previously used by the Special Commission, of which we had been critical and resentful because they deliberately sought to prolong the process. The report introduces new criteria and procedures which are worse than all the previous ones, with a view, of course, to prolonging the process even further.

The report refers to what it calls "a number of central points". These represent a quixotic interpretation of Security Council resolutions relating to the disarmament stage, alleging that disarmament comprises three steps: Iraq's declarations, verification and the destruction, removal or rendering harmless of its weapons. Since, according to the report, verification of Iraq's continuous assurances that it has no more prohibited weapons, which is the step before weapons destruction, removal or rendering harmless, is not possible, the report concludes that the Commission's mandate cannot be fulfilled (paras. 12-15). This way of reasoning brings us back to square one. It ignores everything that has already been achieved with regard to destruction, removal or rendering harmless and the material balance of weapons, and which has been detailed in previous Commission reports (reproduced in the appendices to this letter). The report also deliberately ignores the existence of the comprehensive monitoring system, which has been in place since 1994. As previous Commission reports have stated, the system was established after carrying out a comprehensive survey of Iraq's capabilities in 1991, 1992, 1993 and 1994. This report puts paid to any hopes of an acceptable perspective being used in submitting the Special Commission's report on the fulfilment of the requirements of paragraphs 8, 9 and 10 of resolution 687 (1991), as a prerequisite to lifting the embargo, in accordance with paragraph 22 of that resolution. To justify this spurious approach, the report resorts to propagating new concepts of implementation, seven years after the Commission began its work. These concepts include positive and negative verification (para. 19), de facto rejection of the process of settling outstanding issues in the disarmament stage through technical evaluation meetings, considered as taking time away from field work, as represented exclusively by inspections (paras. 83-88), and refusal to draw up a final list of essential and relevant outstanding issues for the completion of the disarmament stage, describing this as dangerous (para. 79). The report limits the role of the Commission in the verification process to merely ascertaining the truthfulness of the "facts" that Iraq must provide, without attaching any essential value to the cumulative achievements secured during the past seven years in the area of disarmament.

It is very important to recall, in this regard, the Commission's view of the concept of verification, contained in its report to the Security Council on 1 December 1993 (S/26825), which reads as follows:

"12. The Commission expressed its firm conviction that verification of the information now available on Iraq's past programmes could be completed substantially in advance of the Commission being in a position to determine that ongoing monitoring was under way and proceeding in a satisfactory manner. The Commission emphasized that verification would be pursued together with the initiation of full-scale ongoing monitoring. In the unlikely event that some elements of verification were unduly delayed, they would continue to be pursued during the monitoring phase. Therefore, verification need not delay any reports by the Commission and by IAEA under paragraph 22 of resolution 687 (1991). Should any new information on past programmes be forthcoming in the future, the Commission and IAEA welcomed Iraq's express recognition of the right of the Commission and IAEA, after implementation of paragraph 22 of resolution 687 (1991), to undertake immediate on-site inspections."

This view totally contradicts the new approach noted in the present report of the Special Commission.

2. The facts about fulfilment of the requirements of section C of resolution 687

The report presents a gloomy picture of achievements in three areas (missiles, chemical and biological weapons), a picture which deliberately and tendentiously misrepresents the true state of affairs. The Executive Chairman's approach even contradicts some previous declarations and statements made by the Special Commission. Last autumn, he himself said that it might take a year or less before the embargo was lifted.

(a) Missiles

In October 1996, under its former Executive Chairman, the Special Commission identified the outstanding issues with regard to missiles. From late 1996 to August 1997, intensive and wide-ranging efforts were made to resolve these issues. Paragraphs 42 and 43 of the Commission's report of 6 October 1997 stated that significant progress had been achieved in accounting for missiles and that the Special Commission recognized the importance of the progress that had been made. However, the Executive Chairman now presents the missile file as if much remains to be done. In reality, the essential elements of this part of the disarmament stage had been fully addressed by the summer of 1997, after verification of the destruction of rocket motors and missile launchers. However, the Executive Chairman has added a new requirement, that is, verification of the warheads proscribed under resolution 687 (1991). Although we have officially stated our position that this additional requirement is extreme and that verification of this issue has no substantive effect on the requirements of missile disarmament, we have worked with the Special Commission to produce the material balance of all conventional and special warheads. However, the Executive Chairman deliberately ignores what has been achieved in this area. He refers in biased terms to the conclusions of the technical evaluation meeting held at the beginning of February 1998 on this issue, although he knows that great progress was achieved later in verifying the material balance through re-excavation. He himself saw the results during his visit to Baghdad from 22 to 26 March 1998. A great deal has now been achieved

in this area and the matter is virtually resolved, a fact which the Executive Chairman is deliberately fudging.

Since the October 1997 report, the Iraqi side has worked exceptionally hard, both technically and in the field, to provide material evidence and respond to and clarify all the Commission's inquiries concerning missile disarmament, in line with the agreements reached during high-level discussions in Baghdad in July 1997. Proscribed missiles and the material balance of missiles have been fully accounted for, as have missile launchers and their material balance. The remnants of special warheads unilaterally destroyed by Iraq, as well as those destroyed under the supervision of the Special Commission, have been excavated, counted and categorized. Full clarification has been provided as to the duration and method of storage, of warheads, from the adoption of resolution 687 (1991) to the date of their destruction. It has been verified that the number of special warheads recovered as a result of excavation and analysis was 48 or 49, including four warheads used for training, in addition to 30 special warheads destroyed under the supervision of the Special Commission.

Iraq has also provided material evidence, clarifications and responses to other issues which, as was agreed with Mr. Butler in July 1997, are not directly related to disarmament, but which are relevant to understanding the programme and could be followed up after implementation of paragraph 22. The material balance of missile propellants has been accounted for, and full responses to the questions raised provided, supported by the available evidence and documentation. The indigenously manufactured parts which were destroyed by Iraq have been re-excavated (motor parts and missile casing) and their quantities accounted for by UNSCOM 241. The required clarifications and responses concerning the method of destruction and the quantities and types of destroyed items have been provided, supported by documentation (inventories of the items unilaterally destroyed in 1991) and material evidence recovered from the destruction sites. Cooperation has continued with the Special Commission teams sent for verification acceding to their requests for interviews with dozens of senior staff members and technicians, including drivers, on all subjects concerning the unilateral destruction of weapons by Iraq.

Despite all this activity, which demonstrates the progress made in disarmament and the fulfilment by Iraq of its obligations as agreed upon with the former and present Executive Chairmen of the Special Commission, we are surprised by the content of paragraph 130 of the Commission's present report, which states that no progress has been made in disarmament.

(b) Chemical weapons

During the meetings held in Baghdad in February 1997, the Special Commission identified seven items outstanding in this area: special warheads; the chemical warfare agent VX; high-level decisions; documents from Hussein Kamel's farm that include production procedures and commercial contracts; the production equipment released to the Iraqi side by the Special Commission in 1994; DB-2 aircraft bombs; the activities undertaken at the Aqarquf site and chemical analysis equipment. In its report of April 1997 (S/1997/301), the Special Commission referred to these seven items, highlighting

VX and special warheads as being of particular importance. Since the beginning of 1997, the Iraqi side has provided the clarifications sought on these issues in detailed letters to the Special Commission that are considered as complementary to the 22 June 1996 full, final and complete disclosure (FFCD), and at the discussions held prior to the visit of the Executive Chairman of the Special Commission in April 1997. The report of the Special Commission submitted to the Security Council in October 1997 (S/1997/774) referred to the progress made in this area and the destruction of the remaining chemical equipment, materials and analytical instruments. The report also set out the only issues the Special Commission considered to be outstanding, namely VX and the special warheads. This implies that the other issues mentioned in the April 1997 report have been settled. Iraq has supplied all the information requested on those two issues. Technical evaluation meetings on VX and the special warheads have been held in Baghdad, and numerous clarifications on the VX programme have been provided, by letter and in the meetings held with the various Special Commission teams. Lastly, the Special Commission has proposed sending two teams, one of which would re-open discussions on the material balance of chemical munitions that were completed in 1995. The team actually held discussions from 9 to 14 April 1998, during which the numbers of all types of empty and filled munitions were again discussed, with the exception of special warheads, which were not discussed since these come under activities relating to missiles carried out by the Special Commission in cooperation with the Iraqi side. The second team, which will re-open discussion of the material balance of equipment, is expected to arrive within the next few days. During the most recent meetings held in Baghdad, the Executive Chairman noted that the resolution of these two issues (munitions and equipment) will eventually close the subject of VX.

Iraq is fully confident that the requirements of disarmament have been met in the chemical area. If any matter needs to be followed up once this stage has been completed and paragraph 22 implemented, Iraq is ready to cooperate in accordance with the approach contained in the report of the Special Commission dated 1 December 1993 and referred to above.

(c) Biological weapons

The previous Chairman of the Special Commission, in the report submitted in April 1997 (S/1997/301), said that it had been agreed that the biological declaration should be reformulated in accordance with formats provided by the Special Commission in order to make it shorter and eliminate contradictions, with a view to completing the verification process. In September 1997, Iraq submitted the required updated declaration, having corrected mistakes and responded to the detailed questions and tables presented by the Special Commission, despite the fact that the Special Commission had altered its position on the agreement reached in April 1997, demanding that the FFCD should be rewritten and replies to the questions and tables presented by the Special Commission included. This increased the size of the declaration and duplicated the information contained therein. The October 1997 Special Commission report (S/1997/774) stated that the September 1997 FFCD did not fundamentally differ from that of 1996, and that Iraq had failed to provide new documents requested for the verification process. Iraq, however, had made it clear from the outset that it had no documents other than those it had already submitted to the

Special Commission. In March 1998, the biological technical evaluation meeting agreed upon in December 1997 was held, and yielded results which were, basically and in general, similar to those contained in the report of October 1997. The report currently before the Council reiterates this evaluation. It should be mentioned that between April 1997 and April 1998, Iraq, through the inspection teams sent by the Special Commission, discussions, interviews with concerned officials and, especially, technical evaluation meetings, provided many clarifications, explanations and answers to repeatedly asked questions. The Special Commission has also sent many inspection teams to investigate proscribed biological activities relating to the former biological programme or the continuing activities alleged by the Special Commission, but has found absolutely no evidence to support its allegations. Nevertheless, the Special Commission insists on its position, rejecting the biological declaration on the pretext that it is inadequate, incomplete and contains mistakes, and that the information given in it is unsubstantiated by documentation. Furthermore, the Special Commission is universally critical and general in its approach. It fails to differentiate between issues of concern, treating them all as equally important regardless of their impact on implementation of the requirements of resolution 687 (1991) concerning the disarmament phase.

With regard to the biological technical evaluation meetings held in Vienna from 19 to 27 March 1998, these meetings were the first occasion on which Iraq had an opportunity to present its views on previous biological activity and provide information, clarification and explanations to a group of international biological experts in order to make up for the lack of supporting documents. This was a constructive opportunity that led to significant results, which have, however, been ignored by the current Special Commission report. We are therefore surprised by the Special Commission's statement that the international experts' opinion was unanimously negative.

It is clear that the attack against the Iraqi declaration on the biological file is political rather than technical or scientific, despite the fact that the declaration contained all the information and facts that we have on this subject. The Commission insists on rejecting this declaration on the pretext that it cannot be verified, in spite of all the discussions, inspections, clarifications and interviews since September 1995. The Special Commission has presented no concrete, tangible evidence to contradict the Iraqi declaration, but has restricted itself to making accusations and raising doubts.

Iraq has given a genuine and truthful picture of the history of the biological file, while the Special Commission has not presented any tangible evidence to support its criticism, which is of a political and propagandistic nature.

Iraq is confident that it has met all the requirements pertaining to disarmament in this file. All biological weapons and their components have been destroyed. All relevant factories and equipment, and all the 88 sites related to this activity, are subject to a comprehensive and detailed system of monitoring.

Iraq is prepared to continue cooperation with the Special Commission, using the approach identified by the Commission in the 1 December 1993 report referred

to above, after implementation of paragraph 22 of Security Council resolution 687 (1991).

The issue of evidence

In several parts of the report the Executive Chairman, despite the available evidence, attacks Iraq's statement that it no longer has prohibited weapons.

We demand that such statements should cease forthwith. What evidence is there for them? Why did the Executive Chairman not submit this evidence to Iraq, thereby permitting it to clarify its position? Why does he not submit it to the members of the Security Council? In the past, the Special Commission has occasionally cooperated by providing so-called evidence. Iraq was then able to provide clarification. The last such case was the video film which was shown at the technical evaluation meeting held in Vienna. The Special Commission had thought that it showed a biological experiment not mentioned in Iraqi declarations, but it was made clear to the international experts that the experiment was chemical rather than biological.

It is inappropriate for United Nations agencies to make unsubstantiated allegations. The joint programme of action agreed by the Deputy Prime Minister and the former Executive Chairman on 22 June 1996 provided that "with a view to enhancing confidence-building, the work will be carried out in a transparent and open manner, including the sharing of documentation obtained in Iraq in August 1995 and, as appropriate ...".

However, the new Executive Chairman has overturned all the previous agreements and procedures, which had been used in spite of their defects, and has introduced working procedures which can only be interpreted as having unfair political objectives.

It is also worth mentioning that at the technical evaluation meetings, and in the presence of international experts, we demanded that the alleged evidence should be submitted. However, the Special Commission refused and persisted in the approach outlined in the report of the Executive Chairman, namely, that Iraq must provide what it has and the task of the Commission is to verify. This approach is unjust. Iraq has provided what it has. It remains, as always, ready to clarify any suspicions the Special Commission may have. It is totally unacceptable to make claims of having evidence without making clear what that evidence is. The Security Council should ask the Special Commission to submit to it all the evidence it claims to have, in the presence of the Iraqi side, so that Iraq may clarify its position and settle the issue once and for all.

Concealment and claims made by the Special Commission

Since 1996, the Special Commission has been circulating trumped-up allegations about so-called "concealment operations" or the "concealment mechanism" used by Iraq with respect to proscribed weapons and components.

Between the beginning of 1996 and 31 March 1998, the Special Commission conducted many impromptu inspections of such sensitive sites as the Republican

Guards, the Special Guards and the security apparatus. It inspected other sites and carried out other activities. The Special Commission has inspected 133 sensitive sites, and the inspection teams have conducted 183 biological inspections, 328 missile inspections, 172 chemical inspections and 19 import/export inspections.

Recently, after making flagrant allegations that the eight presidential sites contained factories, production equipment for chemical and biological weapons and large stocks of such weapons that represented a threat to the whole world, the Special Commission did not find anything at these sites. It found no proscribed items during its previous inspections. How long will these false allegations and other lies continue?

During my official meeting with the Secretary-General on 20 February 1998, I made the following statement:

> "In a private meeting with Mr. Ekéus in August 1995, which I now put on record in the presence of Your Excellency, I told him that he had the right to take reasonable time to verify the new findings and that we would fully cooperate with him, in all transparency. However, in the end he would discover that the conclusion he had drawn in his June 1995 report to the Security Council on the missile and chemical areas was still valid. In the end, he would find that no missiles, launchers or chemical stockpiles had been concealed. In the biological area he would discover that what had been concealed was in fact some aspects of the complete history of the biological programme and not biological weapons. On behalf of the Government of Iraq, and in your presence, Excellency, I strongly reiterate that statement.
>
> "I request Your Excellency personally, the 21 Commissioners of UNSCOM and the Security Council to use objective, scientific and technical means in order to ascertain these facts as rapidly as possible. I hope that you will strongly support this approach to verification and advise the Executive Chairman of the Special Commission and his staff to abandon the endless, fruitless and provocative forensic means which they have been using in order to verify those facts."

Iraq requests the Security Council to put a final halt to the false claims which are used to justify intrusive inspections and the Commission's position. The former are irrelevant to the disarmament process and are in fact for the purpose of collecting intelligence information for the United States of America, which is determined to launch a new military aggression against Iraq, justifying the failure to close files, and delaying the implementation of Security Council resolution 687 (1991), paragraph 22.

We call upon the Security Council to request the Special Commission to provide it with all the information on this issue it claims to have in its possession and to disclose to the Council the source of this forged information. Iraq is ready to provide all necessary clarification thereof.

In conclusion, we would like to comment on paragraph 130 of the report (S/1998/332) which reads: "a major consequence of the four-month crisis

authored by Iraq has been that, in contrast with the prior reporting period, virtually no progress in verifying disarmament has been able to be reported. If this is what Iraq intended by the crisis, then, in large measure, it could be said to have been successful."

The least that can be said about this conclusion is that it is an infamous fabrication. Work was stopped for only 20 days at the beginning of the crisis, which started in early November 1997 on the decision of the Executive Chairman, not of Iraq, which had requested that United States nationals should not be involved in the work of the Special Commission. However, during the period covered by the report, the inspection teams, monitoring groups and technical evaluation meetings continued their work (appendices A and B).

This is further evidence of the Executive Chairman's lack of objectivity in depicting events and facts to the Security Council.

Mr. President,

These are some examples of the biased position adopted by the Special Commission towards Iraq, of its exaggerations and lies and of its strange manner of dealing with the fulfilment of the requirements of Security Council resolution 687 (1991), section C.

We have already warned that the present composition of the Special Commission does not make for an international organization which is neutral and honest in dealing with Iraq. It is an organization controlled by the United States and used by it against Iraq for its own political purposes. This report provides clear evidence of this. It is, essentially, a United States document aimed at justifying the United States military build-up in the region, the blackmailing of its population and the aggression it is planning against Iraq. This aggression was foiled for a while after the agreement reached with the United Nations Secretary-General on 23 February 1998. It is also intended to achieve the United States aim of maintaining the unjust embargo against Iraq indefinitely and keeping the Gulf oil region occupied to a greater or lesser extent.

This situation is unacceptable. For us, the matter is not a political or technical game. It concerns the destiny of 22 million people, of whom hundreds of thousands have died as a result of the unjust embargo imposed for eight years. All these people are still suffering severely, and are deprived of all the essentials of normal human life.

Iraq has certainly fulfilled all its obligations relating to disarmament under Security Council resolution 687 (1991), paragraphs 8, 9 and 10, and since November 1991 no longer has any proscribed weapons or components. The monitoring system established under Security Council resolution 715 (1991) has been in place since 1994, and Iraq is cooperating fully with this system. Furthermore, the import/export mechanism established under resolution 1051 (1996) is in place and fully operational.

On this basis, the requirements of Security Council resolution 687 (1991), section C, have been fulfilled. Iraq requests the Security Council to implement

paragraph 22 of resolution 687 (1991) forthwith, without any new restrictions or conditions.

This implementation constitutes a legal and moral responsibility which the Security Council should meet without further delay. States which prevent such implementation must bear full responsibility for their unjust position and its consequences.

Annex A

The activities of Inspection Teams and Monitoring Groups for the period from 1/10/1997 to 20/4/1998

Information concerning the inspection teams that implemented certain activities inside Iraq for the period from 1/10/1997 to 20/4/1998

Biological Activity

Ser.	Team	Period	No. of Inspectors	No. of visited sites	Teams Mission	Notes
1	UNSCOM-211	18/10/97 - 23/10/97	7	-	Discussion , Interviews and verification	- The chief inspector thanked the Iraqi side for his cooperation making available all the personnel who were required for the discussion for the special warheads
2	UNSCOM-212	6/12/97-15/12/97	12	8	Inspection	- Thanking the Iraqi side for its cooperation in facilitating the team's mission

Ser.	Team	Period	No. of Inspectors	No. of visited sites	Teams Mission	Notes
3	UNSCOM-215	5/1/98-17/1/98	11	10	Inspection	* Joining with UN-227 on 12/1/98 - Thanking the Iraqi side for its cooperation in facilitating the team's mission .
4	UNSCOM-213	9/1/98-15/1/98	10	-	Discussion	The interviews results improved our understanding of the programme (Ricin) and we appreciate your cooperation in providing a group of personnel involved including two ministers , we also appreciate very much your patience for raising the subject again . The mission was very successful since it reduced the differences in opinions concerning the Ricin .

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Ser.	Team	Period	No. of Inspectors	No. of visited sites	Teams Mission	Notes
5	UNSCOM-222	17/1/98-29/1/98	8	9	Inspection	- Thanking the Iraqi minders for their cooperation and NMD for facilitating the teams mission to get to the sites required to be inspected .
6	UNSCOM-223	30/1/98-13/2/98	10	18	Inspection	- Thanking the Iraqi side for its cooperation in facilitating the team's mission .
7	UNSCOM-225	14/3/98-25/3/98	9	13	Inspection	- Thanking the Iraqi side and especially NMD minders and the people in the visited sites for their cooperation in facilitating the team's mission.

Ser.	Team	Period	No. of Inspectors	No. of visited sites	Teams Mission	Notes
8	UNSCOM-224	19/4/98-2/5/98	11	-	Inspections	The team started its mission on 20/4/1998.
Total	8		78	58		

Chemical Activity

Ser.	Team	Period	No. of Inspectors	No. of visited sites	Teams Mission	Notes
1.	UNSCOM-196	29/9/97-8/10/97	4	4	Equipment destruction	- Thanking the Iraqi side for its cooperation and the chief inspector submitted the destruction certificates concerning the destroyed equipment . The chief inspector clarified also that all destroyed equipment belong to Iraq .
2.	UNSCOM-211	18/10 - 23/10/97	7	-	Discussion , Interviews and verification	- The chief inspector thanked the Iraqi side for bringing all the concerned personnel required in the discussion of the special warheads
3.	UNSCOM-219	16/12/97 - 21/12/97	8	3	Inspection and verifying the declarations	- The team worked for three days during which it visited Al-Muthana site and an agricultural area near Al Sadeeq airport fence Then the chief inspector and his assistants left the country and the remaining group joined Scott Ritter's team.

Ser.	Team	Period	No. of Inspectors	No. of visited sites	Teams Mission	Notes
4.	UNSCOM-221	4/2/98 - 10/2/98	5	7	Inspection	- The chief inspector thanked the Iraqi side for its cooperation and confirmed that the mission obtained new samples better than the old ones. He clarified also that the TEM group asked him to provide them with samples to enhance the Iraqi declarations.
5.	UNSCOM-229	14/3/98 - 20/3/98	10	3	Taking samples and inventorying in addition to checking destroyed materials	- The mission completed its task of the team was to take samples from the munition 155mm.
6	UNSCOM-238	9/4/98-15/4/98	19	1	Discussing the material balance of chemical munitions	- Thanking the Iraqi side for his cooperation and the chief inspector said that he obtained good results concerning the accounting of munitions and the receipt of documents from Hutten State Est. will help in solving the problem concerning the empty munitions 155mm.
Total	6		**53**	**18**		

Missile Activity

Ser.	Team	Period	No. of Inspectors	No. of visited sites	Teams Mission	Notes
1	UNSCOM-207	26/9/97 - 3/10/97	20	13	Sensitive site inspection	
2	UNSCOM-208	26/9/97 - 4/10/97	20	11	Inspection	- The chief inspector appreciated highly the Iraqi support, in spite of the intrusive inspection implemented by the team but they did not find anything that contradicts Iraqi obligations under SCRs.
3	UNSCOM-211	18/10/97 - 23/10/97	12	-	Discussion , Interviews and verification	- The chief inspector thanked the Iraqi side for ensuring the presence concerned persons required in the discussion of the special warheads

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Ser.	Team	Period	No. of Inspectors	No. of visited sites	Teams Mission	Notes
4	UNSCOM-220	10/12/97 - 19/12/97	6	12	Checking the tagged equipment and monitored by cameras equipment that have been evacuated	- The chief inspector thanked the Iraqi side for its cooperation and transparency and he confirmed that evacuation process was implemented to reserve the equipment and those equipment were not operated outside their original sites.
5	MG-15 A	10/12/97 - 21/12/97	8	14	Checking the tags of the aerial defence missile and ground to ground missiles	- The chief inspector thanked the Iraqi side for its cooperation in ensuring all the logistic requirements and for preparing the missiles. He confirmed also that he did not find any indication for converting the missile.
6	UNSCOM-218	18/12/97 - 22/12/97	9	17	Inspecting sits uncovered by monitoring	- The chief inspector thanked the Iraqi side for its cooperation that he appreciated the immediate entry to the inspected side and the improvements of the sensitive site inspection modalities.

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Ser.	Team	Period	No. of Inspectors	No. of visited sites	Teams Mission	Notes
7	MG-15B	27/12/97 - 1/1/98	5	6	Supporting MG-15 regarding the static and free tests for Al Somood Missile	- The chief inspector thanked the Iraqi side for its cooperation and transparency in presenting all matters concerning the monitoring process in general.
8	UNSCOM-227	11/1/98 - 17/1/98	16	8	Inspecting sites uncovered by monitoring	- The mission of the team was halted after the first day on 12/1/98 due to the unbalanced composition of the team
9	MG-15 C	12/1/98 - 21/1/98	4	1	Classifying and inventorying the excavated parts of missiles assembled in project 144/2	- The chief inspector thanked the Iraqi side for its cooperation in identifying the types of the warheads through the excavated remnants

Ser.	Team	Period	No. of Inspectors	No. of visited sites	Teams Mission	Notes
10	UNSCOM-227	5/3/98 - 12/3/98	50	44	Inspection	- The same team, which was halted on 12/1/1998 due to the unbalanced composition of inspectors , returned with the same number UN-227 and with a new mission . - The chief inspector of the team stated at the end of the mission that :- A. The team implemented its mission and that Butler who was observing the work was happy with what was implemented and he appreciated the Iraqi support . B. The Iraqi side has implemented its obligations in para 3 and 5 of the memorandum of understanding between Iraq and the Secretary General . C. He confirmed the necessity of continuing the cooperation spirit between Iraq and UNSCOM .

Ser.	Team	Period	No. of Inspectors	No. of visited sites	Teams Mission	Notes
11	UNSCOM-240	9/3/98 - 12/4/98	20	2	Surveying the special and conventional warheads destruction sites , excavating and inventorying the parts	- The chief inspector thanked the Iraqi side for its cooperation in preparing all the requirements . - The survey and the joint excavation with the Iraqi side for the special warheads destruction areas at Al-Niba'ae was completed but the survey and the joint excavation for the conventional warheads destruction imported or locally manufactured, was not complete due to an order from New York .
12	UNSCOM-228	14/3/98 - 22/3/98	26	8	Inspection	- The chief inspector thanked the Iraqi side for its cooperation and transparency through the work of the team in spite of the intrusive way of inspection . They stated also that the team did not find anything that contradicts with the Iraqi declarations .

Ser.	Team	Period	No. of Inspectors	No. of visited sites	Teams Mission	Notes
13	UNSCOM-241	22/3/98 - 30/3/98	14	5	Inspection and discussion	
14	UNSCOM-240 A	19/4/98 - 24/4/98	3	-		- The work of team started on 20/4/1998
Total	**14**		**213**	**141**		

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Total number of teams, inspectors and inspections for all activities except the nuclear for the period from 1/10/1997 to 20/4/1998

No. of teams	No. of inspectors	No. of inspections
28	344	217

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Information concerning the monitoring groups which implemented certain activities inside Iraq for the period from 1/10/1997 to 20/4/1998

Missile Activity

No.	Group	Period	No. of inspectors	No. of inspections
1.	MG-14	1/10/97-14/10/97	7	21
2.	MG-15	15/10/97-13/1/98	8	123
3.	MG-16	14/1/98-15/4/98	7	190
4.	MG-17	16/4/98-Up to now	6	7
Total	4		28	341

Chemical Activity

No.	Group	Period	No. of inspectors	No. of inspections
1.	CG-11	1/10/97-13/10/97	12	31
2.	CG-12	14/10/97-29/1/98	17	151
3.	CG-13	29/1/98-14/4/98	11	65
4.	CG-14	15/4/98-Up to now	10	11
Total	4		50	258

Biological Activity

No.	Group	Period	No. of inspectors	No. of inspections
1.	BG-10	1/10/97-13/10/97	6	17
2.	BG-11	14/10/97-13/11/97	6	42
3.	BG-12	14/11/97-5/1/98	8	45
4.	BG-13	6/1/98-3/2/98	9	37
5.	BG-14	4/2/98-4/4/98	12	91
6.	BG-15	5/4/98-Up to now	8	20
Total	6		49	252

Nuclear Activity

No.	Group	Period	No. of inspectors	No. of inspections
1.	NMG-56	1/10/97-12/10/97	7	21
2.	NMG-57	13/10/97-30/10/97	5	16
3.	NMG-58	1/11/97-25/11/97	2	9
4.	NMG-59	26/11/97-4/12/97	18	48
5.	NMG-60	5/12/97-21/12/97	9	26
6.	NMG-61	22/12/97-5/1/98	2	13
7.	NMG-62	6/1/98-26/1/98	4	20
8.	NMG-63	27/1/98-13/2/98	5	22
9.	NMG-64	14/2/98-12/3/98	7	26
10.	NMG-65	13/3/98-2/4/98	7	36
11.	NMG-66	3/4/98-Up to now	4	15
Total	11		70	252

Export/Import Activity

No.	Group	Period	No. of inspectors	No. of inspections
1.	EG-7	1/10/97-5/10/97	2	8
2.	EG-8	6/10/97-14/1/98	3	80
3.	EG-9	15/1/98-15/3/98	4	53
4.	EG-10	16/3/98-Up to now	4	31
Total	4		13	172

CSCI Activity

No.	Group	Period	No. of inspectors	No. of inspections
1	CSCI-1	16/10/97-31/12/97	4	44
2.	CSCI-2	13/4/98-UP to now	5	43
Total	2		9	87

Total number of monitoring groups, inspectors and inspections for all activities except the nuclear for the period from 1/10/1997 to 20/4/1998

No. of monitoring groups	No. of inspectors	No. of inspections
20	149	1110

Annex B

The Technical Evaluation Meetings (TEM) during the reporting period

No.	The team name	The period	Venue	No. of participating experts	Subject
1.	UNSCOM - TEM Missile	1/2/1998 to 6/2/1998	Baghdad	UNSCOM = 19 The Iraqi side = 22	Special warheads
2.	UNSCOM - TEM Chemical	2/2/1998 to 6/2/1998	Baghdad	UNSCOM = 18 The Iraqi side = 25	Vx
3	UNSCOM - TEM Biology	19/3/1998 to 27/3/1998	Vienna	UNSCOM = 29 The Iraqi side = 10	Biology

Annex C

A list of weapons, materials and destroyed equipments from 1991 to 1997

THE BIOLOGICAL PROGRAMME

Contents:

1. Table - 1 : The Destruction of Items Related to the Biological Programme by the Iraqi side in 1991
2. Table - 2 :The destruction of Items Related to the Biological Programme Under the Supervision of UNSCOM in 1996

TABLE - 1

The Destruction of Items Related to the Biological Programme by the Iraqi side in 1991.

Ser. no.	Item Description	Qty.	Notes
1	Aerial bomb (R-400)	157	Filled with agents A.B.C. (verified by UNSCOM teams) - UNSCOM 126 Oct. 1995 - UNSCOM 157 Sep. 1996 - UNSCOM 173 Feb. 1997 - UNSCOM 187 May 1997
2	Al-Hussain warhead	25	Filled with agents A.B.C. (verified by UNSCOM teams) - BG-2 Aug. 1995 - UNSCOM 125 Aug. 1995 - UNSCOM 126 Oct. 1995 - UNSCOM 167 Dec. 1996
3	Mobile tanks	46	Empty tanks. (verified by UNSCOM teams) - BG-2 Aug. 1995 - BG-3 Nov 1995
4	Biological agents.	12.8 m^3	7.5 m^3 agent (A) 3.4 m^3 agent (B) 0 6 m^3 agent (C) 0.3 m^3 agent (G)
5	Culture media	unco-unted	Different types of culture media. (verified by UNSCOM teams) - BG-2 Aug. 1995 -UNSCOM 125 Aug. 1995
6	Glass wear	unco-unted	Different types of glass wear.(verified by UNSCOM teams) - BG-2 Aug. 1995 -UNSCOM 125 Aug. 1995
7	Bacterial isolates	unco-unted	Different typs of bacterial isolates. (verified by UNSCOM teams) - BG-2 Aug. 1995 -UNSCOM 125 Aug. 1995
8	Empty Munition		Different types of empty munition, ALD 500 (2), LD250 (3), 122 mm (1), 155 mm (1),R400 (6+7 tails), verified by UNSCOM teams. - BG-3 Dec. 1995 -UNSCOM 127 Dec. 1996

TABLE-2

The Destruction of Items Related to the Biological Programme Under the Supervision of UNSCOM in June 1996

Al - Hakam Site

Ser. no.	Item Description	Qty.	Notes
1.	Spectrophotometer	3	The destruction was carried out under the supervision of UNSCOM 134 from 18/5/1996 to 19/6/1996 and the destruction process was evaluated by UNSCOM 151 from 11/6/1996 to 13/6/1996.
2.	Oven	4	
3.	Microscope	3	
4.	Incubator	4	
5.	Phase - contra wilozyt Microscope	1	
6.	Perstatic Pump	2	
7.	PH-meter	3	
8.	Stirrer	1	
9.	Balance	3	
10.	Shaker Orbital	2	
11.	Centrifuge	5	
12.	Spray dryer	3	
13.	St. St. tank (400 L)	2	
14.	St. St. tank (100 L)	1	
15.	Storage tank (200L)	1	
16.	Harvest tank (600L)	1	
17.	Harvest tank (100L)	1	
18.	Fermenter (450L) with accessories.	1	
19.	Fermenter (100L)	1	
20.	Fermenter (150L)	2	
21.	Tank (520 L)	1	
22.	Autoclave	4	
23.	Steam generator.	6	
24.	Chiller	6	
25.	Heavy duty pump	1	
26.	St. St. Tank(5 m3)	4	
27.	Fermenter (1850 L)	2	
28.	Fermenter (340 L)	1	
29.	Mixer (780 L)	2	

30.	Air dryer	3	
31.	Air compressor	5	
32.	Water distiller	1	
33.	water Pump	11	
34.	Panel control	2	
35.	St. St. tank for distilled water (5000 L)	1	
36.	Deionized water unit with accessory.	2	
37.	St. St. tank for steam generator	1	
38.	Cooling tower	4	
39.	Drum Dryer	1	
40.	Cold room	3	
41.	Gas oil tank mobile	1	
42.	Gas oil tank - static	2	
43.	Gas oil pump	2	
44.	Fiber glass tank	1	
45.	Water bath	1	
46.	Vibro fix	2	
47.	Bacteriological cabinet	1	
48.	Soil dryer	1	
49.	Sea sealing machine	2	
50.	Harvesting tank (600L)	1	
51.	Collecting tank (500L)	1	
52.	Continuous centrifuge	6	
53.	St. St. tank (400L)	2	
54.	Milling machine	1	
55.	Benterite mixer	1	
56.	Anaerobic incubator	5	
57.	Anaerobic cabinet	1	
58.	Chiller	2	
59.	Centrifuge	1	
60.	Oven	7	
61.	Microscope	3	
62.	Air sampler	5	
63.	Vibrofix	4	
64.	Water bath	5	
65.	Fraction collector	1	
66.	Peristatic pump	2	
67.	Colory counter	3	
68.	UV detector	1	

69.	PH probe	1	
70.	Water pump	1	
71.	Loop sterilizer	3	
72.	Sonicator	1	
73.	PH meter	2	
74.	Incubator	8	
75.	Lyophilizer	5	
76.	Vacuum pump	4	
77.	Balance	7	
78.	Autoclave	4	
79.	Shaker incubator	6	
80.	Spectro photometer	2	
81.	Lab. Fermenter with accessories	3	
82.	Centrifuge	2	
83.	Contininuous centrifuge	3	
84.	Motor	4	
85.	Water distiller	2	
86.	Sealing maehine	2	
87.	Deep freezer	2	
88.	Laminair flow	1	
89.	Refrigerator	12	
90.	Freezer	3	
91.	Spare parts for different equipment at all sites.		
92.	Flour filling machine	1	
93.	Desicator	1	
94.	Glass ware	uncounted	
95.	Egg incubator	2	
96.	Kjeldhal apparatus	1	
97.	Magnifier	1	
98.	Developer	1	
99.	Cooling bath	1	
100.	Slide projeetor	1	
101.	Test tube shaker	1	
102.	Flat shaker	1	
103.	Cooling plate	1	
104.	Flask air dryer	1	
105.	Pasteurization unit	1	
106.	Carbon steel tank	1	
107.	Carbon steel tank (100L)	1	
108.	Vibrator	1	

109.	Rotatring pump	1	
110.	Tank (65L)	2	
111.	Tank (166L)	1	
112.	Autoclave	1	
113.	Tank (400L)	2	
114.	Double jackated tank (400L)	1	
115.	Double jackated tank (300L)	1	
116.	Mobile tank (100L) with stirrer	1	
117.	Collecting tank	1	
118.	Incinerator	1	
119.	Cooling tower	2	
120.	pump	22	
121.	Dryer	1	
122.	Incubator	1	
123.	Filter	7	
124.	St. St. tank (different size)	21	
125.	Pressur gauges	28	
126.	Split unit	14	
127.	Chiller	1	
128.	Spare parts	---	
129.	Continous centrifuge	1	
130.	Base unit for fermenter	3	
131.	Glove box	1	
132.	Water distiller	1	
133.	Steam generator	1	
134.	Fermenter (1500L) with accessories	1	
135.	St. St. tank (1500L)	1	
136.	Fermenter (300L)	1	
137.	St. St. tank (20L)	3	
138.	Fermenter (4500L)	2	
139.	St. St. tank (200L)	6	
140.	St. St. tank (2500L)	5	
141.	St. St. tank (3500 L)	1	
142.	St. St. tank (1000 L)	1	
143.	Centrifuge	1	
144.	Spray dryer	1	
145.	Control bord for fermenter (300L)	1	
146.	Control bord for fermenter (4500L)	2	

147.	Control bord for PH + PO2	3	
148.	Control bord for Tanks (2500L)	1	
149.	Control bord for spray dryer	1	
150.	Tank (50L) with mixer St. St.	1	
151.	Control bord for centrifuge	1	
152.	St. St. tank (400L)	1	
153.	St. St. tank (500L)	1	
154.	St. St. tank (1500L)	1	
155.	St. St. tank (2200L)	2	
156.	St. St. tank 10 m3	1	
157.	Fermenter (75L)	1	
158.	Control bord for fermenter (75L)	1	
159.	Tank (600L)	1	
160.	fermenter (300L)	1	
161.	Control bord for fermenter (300L)	1	
162.	Tank (520L)	1	
163.	Centrifuge	1	
164.	Spray drayer	1	
165.	Autoclave	1	
166.	Oven	1	
167.	Steam generator	3	
168.	St. ST. tank 50 m^3	1	
169.	Fuel tanks	uncounted	
170.	PVC &st.st. pipes with different fittings	uncounted	
171.	Electrical stations equipment	uncounted	
172.	Diesel generators	16	
173.	Sanitarry & Constructions materials	uncounted	
174.	Electrical & mechanical tools	uncounted	
175.	Lab. furnitures	uncounted	
176.	Cartoons & plastic boxes	uncounted	
177.	Air Conditioning units	uncounted	
178.	Raw materials for biopesticide and SCP production	uncounted	
179.	Different types & quantities of culture media & chemicals	uncounted	

180.	Thousands of scintific books & pericolicals	uncounted	
181.	Adminstrative & Financials documents	uncounted	
182.	Bactenial isolates used in biopesticide, fertilizer, SCP and organic solvents production	uncounted	
183.	Shed A1	1	
184.	Shed A2	1	
185.	Desel generator Building	1	
186.	Store building	1	
187.	Administration building	1	
188.	Evaluation building	1	
189.	Incineerator building	1	
190.	Reseatch & Development building	1	
191.	Vehicls, maintenance & petroleum station building	1	
192.	Water station building	1	
193.	Electricity building	1	
194.	50 m3 building for SCP production	1	
195.	Main stores building	1	
196.	Drum dryer building	1	
197.	Alcohol stores	1	
198.	5 m3 building for pesticide production	1	
199.	Sanitary and construction material stores	1	
200.	Electical materials stores	1	
201.	Automobile Parking Area	1	
202.	Coravans for stores and Financial administration	1	

Notes:-

- A very large number of the destroyed equipment and materials was not used in the past program or imported for the program purposes. and it is worthmentioning that some of those items arrived at Al-Hakam site after 1993, i.e. 5 cubic meters system for organic pesticides production and the 50 cubic meters system for SCP production. In addition, all spare parts and production raw materials related to the said systems were also destroyed. Moreover, Al-Hakam site buildings were totally destroyed including that which was established after 1992.

- All Al-Hakam site buildings were totally destroyed using high explosives and even the remained buildings structure were collected and re-destroyed by explosives.

- All equipment, instruments and tools were destroyed by cutting , exploding or passing a Bulldozer over them, and after destruction the items were collected in a large pit and covered with a thick layer of cement.

- All scientific books and periodicals were collected in a large pit and burnt

- All culture media and chemicals were destroyed by water and then burried.

Al-Salman Site

Ser. no.	Item Description	Qty.	Notes
1.	Oven	3	The destruction was carried out under the supervision of UNSCOM 134 from 18/5/1996 to 19/6/1996 and the destruction process was evaluated by UNSCOM 151 from 11/6/1996 to 13/6/1996 .
2.	Oven with UV	3	
3.	Sterilization room	1	
4.	Cages for arimals	69	
5.	Plastic bottles	264	
6.	Plastic gauges	8	
7.	Cover	27	
8.	Part of phase contrast microscope	1	
9.	Beneh type centrifuge	2	
10.	Surface tansion measuring equipment	2	
11.	Atomic absorption	1	
12.	Water bath	1	
13.	Centrifuge	2	
14.	Lyophilizer accessories	3	
15.	Deep freezer		
16.	Voltage (regulator)		
17.	Base unit for fermenter	1	
18.	Air filter	2	
19.	Parts of lab. equipment		

AL-Fudaylia Site

Ser. no.	Item Description	Qty.	Notes
1.	Enviromental chamber	4	The destruction was conducted under the supervision of UNSCOM 134 for the period from 18/5/1996 to 19/6/1996 and the destruction process was evaluated by UNSCOM 151 for the period from 11/6/1996 to 13/6/1996 .
2.	Fume hood	1	
3.	Incubation oven	1	

FMD Site

Ser. no.	Item Description	Qty.	Notes
1.	Fermenter (2600 L)	1	The destruction was carried out under the supervision of UNSCOM 134 from 18/5/1996 to 19/6/1996 and the destruction process was evaluated by UNSCOM 151 from 11/6/1996 to 13/6/1996 .
2.	Fermenter (1425 L)	1	
3.	Fermenter (2100 L)	2	
4.	Fermenter (2950 L)	2	
5.	Central cu	8	
6.	Double Jacketeal tank	1	
7.	Fermenter (141 L)	1	
8.	Centrifuge	1	
9.	Incubater	1	
10.	Water bath	1	
11.	Microscope	1	
12.	Refrigeratar	1	
13.	Freezer	1	
14.	Stirring motor	5	
15.	Autoclave	1	
16.	Mobile tank (125 L)	1	
17.	Mobile tank (2550 L)	1	

Notes:-

180 ventilation pipes of FMD site were closed by covering them with a layer of cement.

THE MISSILE PROGRAMME

Contents:

1. Table -1: The Destruction of Items Related to the Missile Programme by the Iraqi side in summer 1991
2. Table - 2 : The Destruction of Items Related to the Missile Programme by Air Raids during the War 1991.
3. Table - 3 : The Destruction of Items Related to Missile Programme under the Supervision of the UNSCOM since 1991.

TABLE -1

The Destruction of Items Related to the Missile Programme by the Iraqi side in Summer 1991

Ser no.	Item Description	Qty.	Notes
1	Horizontal testing vechicle , model (2B11 M)	2	
2	Independent testing vechicle , model (9B41 M)	2	
3	Horizontal testing vechicle , model	2	
4	The oxidizer refiling vechile , model (9T30)	14	
5	The fuel refuelling vehicle , model (9T29)	4	
6	Missile transporting vehicle , model (2T3)	16	7 of which were destroyed at Al-Mahaweel, 8 were destroyed at Al-Saadia and one at Al-Nibbae and the remnants were transported to Al-Taji project (144) , and the remnants of 9 vehciles had been verified by inspection team UNSCOM (34)
7	Small vechile for missiles transport among stores and work shops , model (2T5)	9	8 of which were destroyed at Al-Nibbae and one at Al-Taji.
8	Iraqi made decoy launcher	5	
9	Iraqi made testing and launching vehicle	4	The remnants had been verified by UNSCOM - 34 inspection team
10	Spare parts of transporting vehicle , model (2W1M)	1	
11	Scud and Al-Hussain missiles	85	The remnants had been transported to project (144) at the request of UNSCOM-31 inspection team and had been verified by UNSCOM -34
12	Training Scud Engine	3	Ditto
13	Sectional scud engine	2	Ditto
14	Nozzles for Scud engine (mock-up)	3	Ditto
15	Gyroscope (10)	107	Ditto

16	Gyroscope (9)	110	Ditto
17	Gyroscope (12)	98	Ditto
18	Scud and Al-Hussain warheads	133	of which (45) warheads were modified for chemical warheads. All warheads were verified by UNSCOM teams 31 , 34 and chemical and biological inspections teams.
19	Fuel tank for Al-Hussain Missile	83	
20	Oxidizer tank for Al-Hussain missile	52	
21	Warheads for Al-Hussain missile (empty)	76	
22	Engine cover tail for Al-Hussain missile	50	
23	Fins for Al-Hussain missile	80	
24	Parts manufactured and semimanufactured (imported)	used in ring (200) sets for the item 1,2.3. & 4 above	
25	Parts manufactured locally for the items 1,2.3.4 & 5 above	Ditto	
26	Dyes and tools	approx (100)	
27	Imported parts for arming & safety fuze for Al-Hussain missile	used in ring (200) sets	
28	Torus air bottle (imported)	74	
29	Fuel and oxidizer shut off valves for Al-Hussain missile, and its disassembled parts	250 sets	Verified by UNSCOM -34
30	Primary fuel tanks	70	
31	Steel structure for Al-Waleed Launcher	8 pcs	
32	Cabin equipment for test and firing vehicles	4 pcs	
33	Instruments and electrical	10 set	

	parts for test & firing vechiles		
34	Moulds and fixtures for rubber parts	31	
35	Fixtures and tools for welding	9	
36	Fixtures placed on dollies to transport the BADR/2000 motor	8	
37	Decoy for BADR/2000	1	
38	Turbopump unit (imported)	35	
39	Fuel and oxidizer injectors (imported)	**Hundreds of thousands**	
40	Flexible pipes (different) types (imported)	**Hundreds of each**	
41	Turbine wheel (imported)	**abuot 1200**	
42	Casting and forging parts (imported)	**Hundreds**	
43	Shaft of turbopump unit (imported)	**Hundreds**	
44	Explosive charges with its plugs (imported)	**Thousands**	
45	Reducer valves (imported)	**Hundreds**	
46	Standard parts	**Thousands**	
47	Dyes (imported)	**About 20**	
48	Hydrazine fuel (imported)	**10 ton**	
49	Pipes with its connections (local attempts)	**50 of each type**	
50	Metal rings different sizes (local attempts)	**10 of each type**	
51	Parts of gas generator (local attempts)	**50 of each part**	
52	parts of heat exchanger (local attempts)	**50 of each part**	
53	Inner and outer shells for combustion chamber and nozzles (local attempts)	**Tens of rejected samples**	Local attmpts failed due to the lack of experience in flow forming technology. Many foreign companies refused or were unable to provide such technology.
36	Corrugated rings (local attempts)	**Tens of rejected samples**	Unsuccessful attempts to get the exact shape because of

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			many technical difficulties , deformation and tearing of the sheet metals.
37	Precise parts of valves (local attempts)	Tens of rejected samples	These samples were rejected because they fell short of the requirment of high accuracy.
38	Electrical and mechanical parts used in gyro manufacturing (imported)	Ten thousand	Used in manufacturing about 800 sets. Important parts didn't arrive to Iraq.
39	Invertor (imported)	2	
40	Barometric relay unit (sam-assembled) and individual parts (imported)	Many thousands	Used in manufacturing about 1000 units
41	Amppule battery (imported)	25	
42	Moulds for plastic metallic parts (imported)	50	
43	Different electrical & electronical parts cables, relays, connectors (imported)	Ten thousand	
44	Gyroscope (imported)	Two sets	They were rejcted because of insufficient experience and some imported parts were not received.
45	Computer (analogue) (local manufacturing attempts)	5	
46	Timer (local manufacturing attempts)	6	
47	Junction box (local manufacturing attempts)	4	
48	Emergency destruction system (local manufacturing attempts)	5	
49	Barometric relay unit (local manufacturing attempts)	5	
50	Harness (local manufacturing attempts)	6	
51	Firing cables (local manufacturing attempts)	8	
52	On board switch	9	
53	Different mechanical parts used for gyro manufacturing	Tens	Rejected because of insufficient experience and

	(local manufacturing attempts) required		the required machines were not completely received.
54	Longitudinal acceleration integrating gyro	20	All prototypes were not completely assembled.
55	Combat launchers type (9n117M)	4	- Two chassis in Basmaya - Two chassis , arm rotating base in Al-Mansoriyia - Three arms and three rotating bases in Al-Nibbae. The debris had been seen by UNSCOM -34.
56	Iraqi combat launchers (Al-Nida)	4	The debris had been seen by UNSCOM -34.
57	Training launcher type (9n117M)	1	The launcher was dismantled in order to use some parts in reverse engineering. - The arm and the base were destroyed in Al-Nibaee, the chassis and the cabinet were destroyed in Falluja (Al-Haswa) and Basmaya respectively. The debris had been seen by UNSCOM-34.

TABLE - 2

The Destruction of Items Related to the Missile Programme by Air Raids during the War 1991.

Ser no.	Item Description	Qty.	Notes
1.	Different welding machine	22	These equipment and materials,in addition to the buildings of the project, were destroyed by the air raids during the war . Those destroyed items had been verified by the UNSCOM inspection teams.
2.	Electric welding machine	1	
3.	Automatic spot welding machine	1	
4.	Circular welding machine	1	
5.	Auto-circular welding machine	1	
6.	Electrical-arch welding machine	2	
7.	Plasma cutting machine	1	
8.	Bending machine	2	
9.	Vertical drilling machine	2	
10.	Rolling machine	1	
11.	Radial drilling machine	2	
12.	Cutting machine	2	
13.	Alignment test equipment	4	
14.	riveting press 5 ton	1	
15.	Different tools, dyes and fixtures	Tens	
16.	Fuel and oxidizer tanks and warheads	Tens	
17.	Plastic and metal parts for fuses	Hundreds	
18.	Different parts for the project activity	Thousands	
19.	Different raw materials	Many tons	
20.	General warehouse for hydraulic materials.	all building & contents	100% Destroyed

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21.	Elecrical workshop	all building & contents	100% Destroyed
22.	Mechanical workshop	all building & contents	100% Destroyed
23.	Assembly workshop	all building & contents	100% Destroyed
24.	Testing and firing vehicle	1	100% Destroyed
25.	System of supplying primary fuel and compressed air	20	not compeletley destroyed
26.	Hydraulic pumps	18	not compeletely destroyed
27.	Testing and electric system	1	100% Destroyed
28.	Universal lathe machine	10	320 - 2500 mm
29.	CNC lathe machine	2	250/270 mm
30.	Universal milling machine	4	400 X 650 mm
31.	CNC milling machine	3	300 X 600 mm
32.	Universal grinding machine	5	150 X 500 mm
33.	Drilling machine	3	
34.	Hydraulic testing stand	1	
35.	Training unit for Hydraulic system	1	
36.	Welding machine	2	
37.	Pipe bending machine	3	
38.	Guilloting shear cutting machine	1	12/3000 mm
39.	Bending machine	2	6/2500 mm
40.	Universal shear cutting machine	1	250/10 mm
41.	ARC welding machine	3	400 Amp.
42.	Vertical drilling machine	2	
43.	Flame cutting machine	1	2000/4000 mm
44.	ARC welding machine	6	400 Amp.
45.	Spot welding machine	1	3 mm
46.	Vertical drilling machine		
47.	D.C. Generator	2	24 Volt.
48.	Ohmmeter	3	
49.	Oscilloscope	3	
50.	Building 141 (BELAT AL-SHUHADA)	1	
51.	Two furnaces in building 141	2	
52.	Thermal insulation equipment in building 141	1	

53.	Balances,measuring equipment and different kinds of tools in building 141	1	
54.	Building 146	1	
55.	Air-conditioning and utility equipment for building 146	5 pcs	
56.	Building 147	1	
57.	Weight and control equipment for building 147	2	
58.	Building 151	1	
59.	Air-Conditioning and utility equipment for building 151	3	
60.	Building 153	1	
61.	Air-conditioning and utility equipment for building 153	5	
62.	A(30)gallons mixer with its accessories in building 153	1	
63.	Building 155	1	
64.	A(300)gallons mixer with its accessories in building 155	1	
65.	Air-conditioning and utility equipment in building 155	4	
66.	Air-conditioning and utility equipment in building 156	1	
67.	Building 162	1	
68.	Air-conditioning and utility equipment in building 162	5	
69.	building 142	1	
70.	building 171	1	
71.	Assembly, measuring and control equipment in building 171	2 pcs	
72.	Air-conditioning and utility equipment in building 171	5	
73.	Building 172	1	
74.	Test, measuring and control equipment in building 172	1	
75.	Air-conditioning and utility equipment in building 172	3	
76.	Building 173	1	
77.	Building 191	1	
78.	Air-conditioning and utility	3	

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	equipment in building 191		
79.	Cleaning and drying equipment in building 191	4 pcs	
80.	Building 192	1	
81.	Control equipment and water pump with its accessories in building 192	2	
82.	Store No.115 with a quantity of raw materials	1	
83.	Building 163	1	
84.	Building 164	1	
85.	Building 165	1	
86.	Mechanical workshop, building 61	1	
87.	Restaurant building (11)	1	
88.	Main utility Building which include electrical station, boilers, diesel generators, and water chillers in building (72)	15 pcs	
89.	Electric sub-station, building (73)	1	
90.	Electrical and mechanical external networks	1	
91.	C.N.C. machine	1	
92.	Milling machine	1	
93.	Rolling machine	1	
94.	Radial welding machine	1	
95.	Circular and radial welding fixture	1	
96.	Assembly welding fixture	1	
97.	Radial drilling machine	1	
98.	Band saw	1	
99.	Aging oven	1	
100.	Alignment test stand	1	
101.	Overhead crane	1	
102.	Turning machines	5	
103.	Drying furnaces	2	
104.	Curing furnaces	2	
105.	Three dimensions test machine /DEA	1	
106.	Workshop 311	1	

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107.	Workshop 411	1	
108.	Workshop 412	1	
109.	Restaurant	1	
110.	Stores	3	
111.	Building 532	1	
112.	Building 520	1	
113.	Building 562	1	
114.	Building 560	1	
115.	Building 79	1	
116.	Building 510	1	
117.	Building 511	1	
118.	Building 512	1	
119.	Building 513	1	
120.	Building 514	1	
121.	Building 515	1	
122.	Building 525	1	
123.	Thrust calibration instrument in building 532	15	

TABLE - 3

The Destruction of Items Related to Missile Programme under the Supervision of the UNSCOM since 1991

Ser. no.	Item Description	Qty.	Notes
1.	Missiles (Al-Hussiain)	48	Destroyed by UNSCOM -3
2.	Training Missiles	4	Ditto
3.	Al-Fahad-300	9	Ditto
4.	Al- Hussain warheads	32	Ditto
5.	vehicle for horizontal test	1	Ditto
6.	Independent test vehicle	1	Ditto
7.	Horizontal training vehicle	1	Ditto
8.	Oxidizer filling vehicle	5	Ditto
9.	Fule filling vehicle	4	Ditto
10.	Test and launching vehicle	4	Ditto
11.	Missile carrying vehicle	8	Ditto
12.	Russian Launcher	6	Ditto
13.	Al- Nida'a Launcher	2	Ditto
14.	Al- Waleed Launcher	2	Ditto
15.	Missile container	132	Ditto
16.	Oxidizer tank (filled)	18	Ditto
17.	Main fuel tank (filled)	7	Ditto
18.	Fule tank for ignition (filled)	6	Ditto
19.	Oxidizer tanks (empty)	187	Destroyed by UNSCOM 3 and 18
20.	A Mobile decoyed launcher	4	Ditto
21.	Decoyed missiles	11	Destroyed by UNSCOM 10
22.	Fixed Launchers (at the Western Zone)	28	Destroyed by UNSCOM 18
23.	Fixed Launchers {(for training)(Al- Taji)}	2	Ditto
24.	Launcher for experiment purposes (Tel-Afer)	1	Ditto
25.	Concrete base and civil engineering work (At the Western Zone):	23	Ditto
26.	Decoyed structure for a fixed launcher at the Western Zone.	2	Ditto
27.	Special aluminium container for the special head of Al-	11	Destroyed by UNSCOM -3

	Hussain Missile.		
28.	Conventional warhead for Al- Hussain Missile (structure only)	2	Destroyed by UNSCOM -3
29.	Oxidizer tank	1	Destroyed by UNSCOM -3
30.	Fuel tank	1	Ditto
31.	Nose of half tank and dishes	Tens	Ditto
32.	Aluminium head 122 mm	12000	Ditto
33.	Incompleted steel head 122mm	4000	Ditto
34.	Dye for dishes	1	Ditto
35.	Air cylinder	12	Ditto
36.	Triple holder with part of a transportation trolley	3	It was in gable no. (15) and had been verified by the previous inspection team. Though it was partially destroyed, the inspection team UNSCOM-28 directed that it should be destroyed compeletely.
37.	Fixtures of destroyed tank for the production line .	2	Ditto
38.	Small parts for sub-systems of the tanks (pieces of connected pipes & other terminations)	tens	Ditto
39.	Fixed launcher arm structure	23 pcs.	During the period from 10 to 15 Aug. 1990
40.	Arm holder	21 pcs.	Ditto
41.	The upper joint hinge for the main hydraulic cylinder	156 pcs.	Ditto
42.	The lower joint hinge for the main hydraulic cylinder	37 pcs.	Ditto
43.	fixed launcher stool	12 pcs.	Ditto
44.	Mobile launcher under construction	1 pcs.	Ditto
45.	Rotating and fire adjustment launching stool for the	9 pcs.	Ditto

	missile		
46.	Concrete base for fixed launcher assembling	9 pcs.	(2) of them in Al-Qaqa'a site , (2) in Al-Dorah site and (5) of them in Al-Nahrawan site .
47.	Fixtures of assembling fixed launchers parts.	2 pcs.	Destroyed by UNSCOM -8
48.	primary experimental fixed launchers. Saddam Base.	1 pcs.	Destroyed by UNSCOM -8
49.	Grain core (mandrel) in bldg. 162	2 pcs.	Ditto
50.	Assembling tools for casting (casting top) in bldg. 162	2 pcs.	Ditto
51.	Tools for shaping the end of the motor (displacement plate) in bldg. 162	2 pcs.	Ditto
52.	Tools for fixing the core from the upper side (casting centering) in bldg. 162	2 pcs.	Ditto
53.	Tools for fixing the core from the lower side (casting centering) in bldg. 162	2 pcs.	Ditto
54.	Cover plate in bldg. 162	2 pcs.	Ditto
55.	A mock-up for Bader (2000) missile	1 pc	Ditto
56.	Dollies for Badr (2000).	4 pcs.	Ditto
57.	Mixer 300 gallon .	2 pcs.	Destroyed by UNSCOM (31 and 34)
58.	Bowl with its covers	3 pcs.	Ditto
59.	Control equipment for mixer 300 gallon in building 154	2 units	Ditto
60.	Casting and curing tank in building 162	2 pcs.	Ditto
61.	Tilting mechanism in building 162	2 pcs.	Ditto
62.	Tilting mechanism with cradle in building 192	1 pc	Ditto
63.	Calender in building 141	1 pc	Ditto
64.	Press 300 ton in building 141	1 pc	Ditto
65.	Degreasing unit in building 141	1 pc	Ditto

66.	Sand blasting unit in building 141	1 pc	Ditto
67	Tank near building 252	2 pcs.	Ditto
68.	Double cone drier in building 145	1 pc	Ditto
69.	Grinder in building 146	2 pcs.	Ditto
70.	Blade sifter in building 146	1 pc	Ditto
71.	Filter in building 146	1 pc	Ditto
72.	Control unit for drying and grinding in building 146	2 units	Destroyed by UNSCOM (31.34)
73.	Building 141		Ditto
74.	Building 148		Ditto
75.	Building 155		Ditto
76.	Building 156		Ditto
77.	Building 162		Ditto
78.	Building 145		Ditto
79.	Building 146		Ditto
80.	Building 147		Ditto
81.	The second welding positioner (the upper part) seal no. 05298	1 pc	Ditto
82.	The second welding positioner (the lower part) seal no. 05299	1 pc	Ditto
83.	The third welding positioner (the first part) seal no. 05300	1 pc	Ditto
84.	The third welding positioner (the second part) seal no. 05302	1 pc	Ditto
85.	The third welding positioner (the third part) seal no. 05303	1 pc	Ditto
86.	third welding positioner (the fourth part) seal no	1 pc	Ditto
87.	Maraging steel	114 pcs.	Ditto
88.	Computer for DEA machine	1 pc	Ditto
89.	Instrone cooling chamber	1 pc	Ditto
90.	Instrone measurement unit	1 pc	Ditto
91.	Coolers	2 pcs.	Ditto
92.	Dollies	2 pcs.	Ditto
93.	Tig longitudinal welder, seal		Ditto

	no. 05290		
94.	Extruder, seal no. 05294	1 pc	Ditto
95.	Cnc turing lathe seal no. 05306 & 05634	2 pcs.	Ditto
96.	Hydraulic press seal no. 05311	1 pc	Ditto
97.	Longitudinal flange and dome welders	3 pcs.	Ditto
98.	Wrapping machine	3 pcs.	Ditto
99.	Calender	1 pcs.	Ditto
100.	X-Ray gun and accessories seal no. 05635		Destroyed by UNSCOM-31,34
101.	Motor case transport dollies	2 pcs.	Ditto
102.	Aging oven	1 pcs.	Ditto
103.	Sand blasting unit	2 units	Ditto
104.	Shearing machine seal no. 05628	1 pc	
105.	Hydraulic press 1600 ton	1 pc	Ditto
106.	X-Ray machine seal no .05637	1 pc	Ditto
107.	X-Ray controller seal no. 05638	1 pc	Ditto
108.	X-Ray development machine seal no. 05639 & 05640	2 pcs.	Ditto
109.	Lathe seal no.05641 & 05642	2 pcs.	Ditto
110.	Hydraustatic test	1 pc	
111.	Measuring bench	1 pc	Ditto
112.	Coolers	2 pcs.	Ditto
113.	Test stand for rocket motors	2 pcs.	Ditto
114.	Electronic equipment for static test	1 unit	Ditto
115.	Cradle for bader (2000)	1 pc	Ditto
116.	Cooling and heating chamber	2 pcs.	
117.	Building 531		Ditto
118.	Building 532		Ditto
119.	Test base no. 2 in Al-Rafah site project 1728	1	Destroyed by UNSCOM-8
120.	Gun(350)mm,complete system in(Hymreen)including the following items:	1	-(5)pipes of(10)m lenght -one breech -(7)slide bearings and all other secondary items such as one projectile left at the

			site. UNSCOM-18 agreed to the manner of destruction and then verified the debris of destruction.
121	Destruction of the materials stored at the General Establishment for Automobile production as follwos: -Tubes(350)mm bore dia.and (10)m length -Tubes(1000)mm bore dia.and (5-6)m length -Slide bearings. -Hydraulic recoil cylinders for(1000)mm caliber. -Steel breech for(350)mm caliber. -Brackets for(1000)mm caliber. -Bearing for(350)mm caliber.	6 44 15 4 1 4 1	The team headed by Mr. Patrace visited the site on 6.12.1991 and agreed to the manner of destruction.
122.	All the remaining charges in Al-Qa'qaa Establishment had been destroyed in the presence of Mr.Douglas Englund and his team.		
123.	The remaining (7)slugs had been destroyed during summer of 1991 by the Iraqi side.		
124.	Tracking radar	1	All systems were destroyed under the supervision of UNSCOM (MG-2)
125.	Balancing machine	1	It was destroyed under the supervision of UNSCOM (MG-4) on 23/7/1995
126.	Vacuum Furnace	2	Destroyed under the supevision of UNSCOM(MG-4) on 23/7/1995
127.	Flow forming machine	2	Destroyed under supevision of UNSCOM(MG-4) on 23/7/1995
128.	Meteo-1 (Supersonic	1	The system was dismantled by

	Parachute system)		MG-8 on 25 and 25 of March 1996. The system was then sent to UNSCOM headsquarters in New York .

THE CHEMICAL PROGRAMME

Contents:

1. Table-1: The Destruction by the Iraqi Side of Items Related to the Chemical Programme in 1991.
2. Table-2: The Destruction of Items Related to the Chemical Programme by Air Raids during the War in 1991.
3. Table-3: The Destruction of Items Related to the Chemical Programme under the Supervision of the UNSCOM in 1991
4. Table-4: The Destruction of Items Related to the Chemical Programme under the Supervision of the UNSCOM 1992-1994
5. Table-5: The Destruction of Items Related to the Chemical Programme under the Supervision of the UNSCOM from 1 Sept. - 7 Oct. 1997

TABLE - 1

The Destruction by the Iraqi Side of Items Related to the Chemical Programme in 1991

Ser. no.	Item Description	Qty.	Notes
1	122 mm rocket type sakar-30	6000	* Empty
2	122 mm rocket type firoS S25	16500	* Empty
3	122 mm warheads	4500	* Empty
4	Aerial bomb type LD250	2000	* Empty
5	Aerial bomb R-400	530	* Filled with alcohol
6	Al-Hussain warhead	20	* Filled with Alcohol
7	Aerial bombs type 250	125	*
8	Coline	55 tons	*
9	P2S5	170 tons	*
10	MPS	1625 kg	*
11	DFP	2 tons	*
12	Pyrophosphate	3 tons	*
13	Spoilt VX	3170 kg	*

* All the items were verified by UNSCOM-35

TABLE - 2

The Destruction of Items Related to the Chemical Programme by Air Raids during the War in 1991

Ser no.	Item Description	Qty.	Notes
1	Filling station warhouse	7	
2	Production building	6	
3	R & D building	5	
4	Bunkers	4	
5	Mechanical workshop	4	
6	Aerial bomb , workshop	1	
7	Al-Muhammadiat warhouse	35	
8	Library builing	1	
9	Administrative building	2	
10	Falluja/1 site warhouse multipurpose building utilities	 4 1 2	
11	Falluja/2 site chlorine plant thionyl plant warhouse multipurpose building	 1 1 4 1	
12	Falluja/3 site warhouse multipurpose building utilities	 4 1 1	
13	Chemical precursors	1006 ton	
14	Production equipment -Reactors -Distillation Column -Vessel -Scrubber -Compressor -Chiller -Vacumme pump -Heat exchanger -Heating system -Glass Column -Neutralization unit Total	 14 19 25 8 8 11 9 2 1 3 2 102	

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15	Munitions -120 mm mortar shell filled with CS -120 mm mortar shell empty -82 mm mortar shell filled with CS -122 mm rocket empty -122 mm rocket conventional -RPG-7 filled with CS -122 mm rocket filled with nerve agent Totol	 20000 24000 107 29622 16050 1400 2500 94179	

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TABLE - 3

The Destruction of Items Related to the Chemical Programme under the Supervision of the UNSCOM in 1991

Ser no.	Item Dscription	Qty.	Notes
1.	R-400 Aerial bomb	56	UNSCOM -12 CW4
2.	122 mm Rocket warhead	7253	DITTO
3.	Aerial Bomb LD-250	2439	DITTO
4.	Aerial bomb 750 kg	8	DITTO
5.	Aerial bomb DB-2	27	DITTO
6.	155 mm Artillary shell	1688	DITTO
7.	Aerial bomb LD-500	327	DITTO
8.	Aerial bomb Qaqa 500 kg	4	DITTO
9.	Tail fin, body, noze cone parts 500 kg bomb	403	DITTO

TABLE - 4

The Destruction of Items Related to the Chemical Programme under the Supervision of the UNSCOM 1992-1994

Ser no.	Item Description	Qty.	Notes
1.	122 mm Rocket components (including warheads . motors, and propellant)	36063	UNSCOM -38 [CDG]
2.	155 mm Artillary shell filled with mustard	12800	DITTO
3.	155 mm Artillary shell empty	50	DITTO
4.	Al-Hussein warhead filled with GB/GF	16	DITTO
5.	Al-Hussein warhead filled with alcohol	14	DITTO
6.	R-400 aerial bomb	337	DITTO
7.	R-400 Tail fin	804	DITTO
8.	Aerial bomb LD-250 empty	5200	DITTO
9.	Aerial bomb LD-250 filled with mustard	1233	DITTO
10.	Aerial bomb LD-500 filled with mustard	980	DITTO
11.	Aerial bomb type DB-2 empty	1115	DITTO
12.	Aerial bomb type DB-0 empty	61	DITTO
13.	Mustard agent	465154 litter	DITTO
14.	Nerve agent	88360 litter	DITTO
15.	Chemicals precursors	2800000 litter	DITTO
16.	Machines for production of aerial bomb -Plate sheats machine -Roll bending machine	 1 1 3	UNSCOM - 39

	-Longitudinal submerged arc welding machine	1	
	-Horizontal hydraulic press with an expanding mandrel and segment	2	
	-Oxy-flame cutting machine	4	
	-Robot welding machine	2	
	-Circular submerged arc welding machine	2	
	-Circular submerged arc welding machine with two welding heads	2	
	-Welding posioner machine	3	
	-Spot welding machine	1	
	-Circular shears machine	2	
	-Rotary transfer machine for drilling and tapping	1	
	-Small welding positioner clamped on verical column	3	
	-3-units of universal production lathe machine	2	
	-CNC turing machine	2	
	-Metal band sawing machine	1	
	-Ring former machine	2	
	-Column drill	2	
	-Horizontal hydraulic press with an expanding mandrel and segment	2	
	-Spinning lathe forming machine	3	
	-3-units of tig welding machine	1	
	-Welding positioner device	2	
	-2-unit of longitudinal tig-welding machine	1	
	-Hydraulic press capacity 10 tons	3	
	-3-unit of universal column drill	1	
	-Induction brazing solder welding machine	1	
	-Porfile roll bending machine	2	
	-Metal circular sawing machine	1	
		1	

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	-Universal rotator table -Manual roll banding machine -Manual ring former Totol	1 54	
17.	Tools & Molds for item	16	DITTO
18.	Production equipment	52	UNSCOM-38

TABLE - 5

The Destruction of Items Related to the Chemical Programme under the Supervision of the UNSCOM from 1 Sept. - 7 Oct. 1997

Ser no.	Item Dscription	Qty.	Notes
1.	chemical precursors	270 ton	The destruction was carries ou under the supervision o UNSCOM 196
2.	production equipment which include reactors, columns, heat exchangers, tanks condensers and vessels.	185	DITTO
3.	glass equipment which include reactors condensers, distillation columns and vessels.	197	DITTO
4.	different analytical instruments.	90	DITTO

THE NUCLEAR PROGRAMME

Contents:

1. Table - 1 : The Destruction of Items Related to the Nuclear Programme by the Iraqi side up to the end of June 1991.
2. Table -2: The Destruction of Items Related to the Nuclear Programme By Air Raids in 1991.
3. Table -3: The destruction of Items Related to the Nuclear Programme during the War.
4. Table -4: The Destruction of Items Related to the Nuclear Programme Under the Supervision of IAEA in 1992.

TABLE-1

The Destruction of Items Related to the Nuclear Programme by the Iraqi side up to the end of June 1991

(Al-Tarmiya site)

Ser. no.	Item Description	Qty.	Notes *
1	Double pole & double coil	12	R 1200, 600 separator and system componens (phase 1 and 2)
2	End pole	6	
3	Vertical return iron supporting the end pole	4	
4	Vacuum chambers	31	
5	Quadruple collectors	8	
6	Quadruple ion sources	7	
7	Double pole supporting carriages	27	
8	Vertical return iron	6	
9	Double pole with no coil	15	
10	Coils	30	
11	Sources	6	
12	Collectors	4	
13	Power supplies for ion sources	36	cabinet containing : - PS1 (10 v, 500 A) - PS3 (400 v, 7 A)
14	Pilot plant recovery of uranium from liners and graphite collectors R-1200	1 6 2	- washing chamber - Leaching tank - Ultrasonic bath

(Al-Tuwaitha site)

Ser no.	Item Description	Qty.	Notes
1	Equipment for project 101	32	different components
2	Equipment for project 105	20	Ditto
3	Equipment for project 106	2	Ditto
4	Equipment for project 102/103	4	Ditto
5	R-100 separators (R-100/1, R100/2 , R100/3)	1	4 different components

6	R-50 Separators	1	3 different components
7	Coils for EMIS projects	3	
8	System for measurement of separation factor for diffuser using R12/R114	500	- porous tubes 60 cm long
9	Anodized barriers (600 tube)	600	- Anodized barrier
10	System for preparation of anodized barrier for P301	1	
11	Measurement system for permeability and burst	1	
12	Unit for UF6 perparation by direct fluorination	2	- Boat type metal unit
13	UF6 cylinders (5A,2S,1S)	16	
14	Experimental rig for UF6 purification from HF,N2 and R-114	1	UF6 purification
15	Pilot reprocessing plant-LAMA	1	21 different components
16	Unit for production of highly enriched uranium	1	8 different components
17	Experimental units for U-metal purification	1	5 different components
18	Unit for perparation of UF4 by direct reaction with UO2	1	5 different components
19	Plant for production of metallic uranium /UF4 preparation	1	11 different components
20	Unit for production of nuclear grade UO2 purification	1	28 different components

(Dijla Factory)

Ser no.	Item Description	Qty.	Notes *
1	Power supply	6	
2	Power supply for magnet	2	

(Qaqa'a Gen. EST. site)

Ser no.	Item Description	Qty.	Notes *
1	Equipment for vacuum casting (4th stage development)	1	- about 10 molds
2	E.B.W. detonators	100	detonators
3	Mold for pressing of explosives	10	mold
4	Lenses	30	Lens
5	Systems for detonating 4,8,16 detonators	3	

(Rashdiya EDC.)

Ser no.	Item Description	Qty.	Notes *
1	Unit for UF4 preparation by wet method	1	Reactor
2	Anodized alumina barrier tube suitable for UF6	1	Barrier tube
3	Oil centrifuge	1	10 different components
4	Equipment for projects 360,362,363,364 and 365	3	
5	Unit for Uf6 preparation by direct fluorination (50 gm/batch)	1	

(Al-Atheer Site)

Ser no.	Item Description	Qty.	Notes *
1	Equipment for device development program	3	
2	Equipment for device development program	100	PVDF sensors

*** Note :-**

All these Buildings were verified by the IAEA inspection teams (1-8) which visited Iraq from 14 May - 18 Nov. 1991

TABLE-2

The Destruction of Items Related to the Nuclear Programme By Air Raids in 1991.

(Building)

Ser. no.	Item Description	Qty.	Notes *
1	Iraqi Atomic Enenrgy Commision		Completley destoryed with all their equipment
	-14 July Reactor building	1	
	- Tamuz-2 Rector building	2	
	- Readioactive wast treatment building	1	
	- Hot cell building	1	
	- Radio isotope production building	2	
	- Computer building	1	Partially destroyed with most their equipment
	- Physical building	1	
	- Chemical Radiochmical Lads	1	
	- Lazer building	1	
	- Fuel Fabrication building	2	Completely destroyed with all their equipment
	- Electromagnetic saprators building	3	
	- Admistration building	2	
	- Mechanical work shopes	2	
	- Cooling Towers	2	
2	Tarimya site		
	- Sapartors buildings	3	Completely destoryed with all equipment
	- Chemical washing buildings	1	
	- Medical center	1	
	- Collector preparatu building	1	Paritially destroyed
	- work shopes	2	
	- water purificaton building	1	
3	Al-Jazira site		Completely desroyed with all its equipment
	- Uo2 production building & its uitilities	2	
	- Ucl4 production building & its uitilities	2	
	- Work Shopes	2	

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4	Al-Qaim - Yellowcake purification unit	1	All the building & lads with their equipment destroyed Completely
5	Al-Atheer - Testing Bunker - Physical building - Restrant - Power station		

*** Note :-**

All this Buildings was verified by the IAEA inspection teams (1-3) which visited Iraq from 14 May - 19 July 1991

TABLE-3

The Destruction of Items Related to the Nuclear Programme during the War .

(Tuwaitha site)

Ser. no.	Item Description	Qty.	Notes *
1	control system for projects 104,105 & 106	1	89 Different Components
2	Equipment for project 101	1	- A field scanning system. consisting of 256 Hall-prodes type KSY-10
3	Equipment for project 106	1	22 Different Components
4	Equipment for project 102/103	1	6 Different Components
5	R-100 separators (R100/1, R 100 /2, R100/3)	1	6 Different Components
6	R-50 separators	1	11 Different Components
7	Power supplies	44	
8	The pilot plant for chemical ennrichment	1	27 Different Components
9	Equipment for chemical enrichment programme	3	
10	Chemical enrichment program.Ion exchange separation pilot plant of the uranium isotopes	1	
11	Chemical enrichment program.Ion exchange separation production plant project	1	
12	Co2 Lasers (Iraqi made)	1	Co2 Lasers
13	Experimental apparatus	1	6 Different Components
14	Other laser equipment	1	9 Different Components
15	Tubes for molecular beam	1	
16	X-ray device	1	X-ray device
17	System for denotaing 4-detonators	1	Counter (resol. Ins)

(Tuwaitha site)

Ser no.	Item Description	Qty.	Notes *
18	Unit for UF4 preparation by using R12 as fluorinating agent	1	Pyrex rotary reactor (May 87-Jan. 91)
19	Unit for UF4 preparation by using R12	1	Boat type pyrex unit
20	Unit for UF4 preparation by using R12	1	Pyrex rotary reactor dry method
21	Po-210	140 ugm	- Radioactive source
22	Pilot reprocessing plant-LAMA	1	21 Different Components
23	Unit for preparation of polonium 210	1	8 Different Components
24	Pilot plant for production of UCI4	1	8 Different Components
25	pilot plant for recovery of uranium from graphite collector of EMIS size R-1000, R-500	1	6 Different Components
26	R&D system for UCI4 purification by sublimation on a semi continuous bass	1	4 Different Components
27	system for investigation of UCI4 purification by sublimation on a semi continuous basis	1	4 Different Components
28	Sublimation units for project 224	1	24 Different Components
29	system for preparation of UCI4 by liquid phase reaction between liquid CCI4 and UO3	1	8 Different Components

(Tuwaitha site)

Ser no.	Item Description	Qty.	Notes *
30	system for purification of UCI4 by vacuum sublimation	1	16 Different Components
31	system of reduction of uranium peroxide	1	9 Different Components
32	UCI4 preparation by liquid phase reaction	1	7 Different Components
33	UCI4 production by liquid phase chlorination	1	8 Different Components
34	UCI4 productions by vapor phase chlorination (1kg/batch)	1	6 Different Components
35	UCI4 production system	1	7 Different Components
36	Unit for CCI4 purification	1	7 Different Components
37	pilot plant for recovery of uranium from liner (EMIS)	1	6 Different Components
38	System for handling washing solution contining uranium recovered from the liner	1	8 Different Components
39	Unit for production of highly enriched uranium	1	2 Different Components
40	Unit for puification of Mg metal powder	1	4 Different Components
41	Experimental studies of U-metal purification	1	6 Different Components
42	Unit for puification of U-metal	1	29 Different Components
43	Unit for preparation of UF4 by direct reaction with UO2	1	2 Different Components
44	Unit for preparation of UF4 from crude OU4 directlyby	1	5 Different Components
45	Unit for preparation of nuclear grade UO2 purification	1	4 Different Components

(Tuwaitha site)

Ser no.	Item Description	Qty.	Notes *
46	Unit for preparation of nuclear grade UO2 purification	1	6 Different Components
47	Ceramic line	1	23 Different Components

(Dijla Factory)

Ser no.	Item Description	Qty.	Notes *
1	Power supply	5	

*** Note :-**

All this equipment was very verified by the IAEA inspection teams (1-8) which visited the Iraq from 14 May - 18 Nov. 1991

TABLE-4

The Destruction of Items Related to the Nuclear Programme under the Supervision of IAEA in .1992

(Al-Atheer site Building)

Thirty five thousands square meters were destroyed at Al-Atheer site. approximately as follows :-

Ser. no.	Item Description	Qty.	Notes	Team No.	Date
1	High explosives test vunker	1	Destroyed by filling the room with concrete	11 th IAEA	7-15/4/92
2	Explosion chamber	1	Destroyed bycutting torch	Ditto	Ditto
3	Control building	1	Destroyed by explosives	Ditto	Ditto
4	Physics building	1	Ditto	Ditto	Ditto
5	casting building	1	Ditto	Ditto	Ditto
6	Carbide building	1	Ditto	12 th IAEA	26/5/92 - 5/6/92
7	powder building	1	Ditto	Ditto	Ditto
8	polymer	1	Ditto	Ditto	Ditto

(Al-Tarmiya site Building)

1500 square meters of Al-Tarmiya site's building were destroyed as follows:-

er no.	Item Description	Qty.	Notes	Team No.	Date
1	Seperators building	1	Destroyed by explosive	12 th IAEA	26/5/92 - 5/6/92
2	Electrical power supply station for Seperators building (No. 80)	1	Destroyed by explosive	13 Th IAEA	14-21/7/92
3	Electrical power station	1	Destroyed by explosive	Ditto	Ditto

(Al-Shirkat site Building)

Ser no.	Item Description	Qty.	Notes	Team No.	Date
1	Electrical power supply	3	Destroyed by explosives	12 th IAEA	26/5/92 - 5/6/92
2	Seperators building	1	Destroyed by explosives	Ditto	Ditto

(Al-Tuwaitha Equipment)

Ser no.	Item Description	Qty.	Notes	Team No.	Date
1	Glove box	15	Totally destroyed by filling with cement	8 th IAEA	11/18/11 1991
2	Manipulator	10	Totally destroyed	Ditto	Ditto
3	Mixer settlers	32	Ditto	Ditto	Ditto
4	Vacuum chambers	30	Ditto	7 th IAEA	11-22/10 1991
5	Vacuum systems	1	Ditto	Ditto	Ditto
6	Vacuum tube	4	Ditto	Ditto	Ditto
7	Elevator tester	2	Ditto	Ditto	Ditto
8	Oil centrifuge assembly	2	Ditto	Ditto	Ditto
9	Oil centrifuge cylinders	3	Ditto	Ditto	Ditto
10	Centrifuge cover	7	Ditto	Ditto	Ditto
11	Uf6 loading system	1	Ditto	Ditto	Ditto
12	Tools boxes for the centrfugal	5	Ditto	Ditto	Ditto
13	equipment belong to the centrfugal	1725	Ditto	Ditto	Ditto
14	Mold for pressing the parts	1	Ditto	Ditto	Ditto

	of vacumm boxes				
15	Elevator for the ecntrfuge welding	1	Ditto	Ditto	Ditto
16	Puls column system	1	Ditto	Ditto	Ditto
17	Marging steel	100tons	Ditto	Ditto	Ditto
18	Varous special aluminum	45tons	Ditto	Ditto	Ditto
19	Magnetic magnesium oxide	240000 pieces	Ditto	Ditto	Ditto
20	Hot cells	5	Ditto	Ditto	Ditto
21	Electrode size 400	6	Ditto	Ditto	Ditto
22	Electrode face	5	Ditto	Ditto	Ditto
23	return Iron size 1000	5	Ditto	Ditto	Ditto
24	Ring return iron	10000 pieces	Ditto	Ditto	Ditto
25	Steel system 106	2	Ditto	Ditto	Ditto
26	Copper coils	15	Ditto	Ditto	Ditto
27	End electrodes	4	Ditto	Ditto	Ditto
28	Vertical return iron	4	Ditto	Ditto	Ditto
29	Different size and kind of equipment for the production of lithium isotopes	20	Ditto	Ditto	Ditto
30	600 mm Vacuum Chambers Die	1	Ditto	Ditto	Ditto
31	600 mm Vacuum Chambers	2	Ditto	Ditto	Ditto
32	600 mm Vacuum Ducts	2	Ditto	Ditto	Ditto

(Equipments Rashdiya Engineering Design Centre)

ber no.	Item Description	Qty.	Notes	Team No.	Date
1	Carbon fiber sylinders	7	**Note:- centrifuge components**	7 th IAEA	11-22/10 1991
2	Recipients with holes	4	Ditto	Ditto	Ditto
3	Recipients with holes and pumps	2	Ditto	Ditto	Ditto
4	Recipients without holes	1	Ditto	Ditto	Ditto
5	Recipients of different design and 2 loose pieces	2	Ditto	Ditto	Ditto
6	Top flanges	54	Ditto	Ditto	Ditto

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7	Top fiange with damper	1	Ditto	Ditto	Ditto
8	Test jigs	2	Ditto	Ditto	Ditto
9	Set of piping with valves and vacuum circuit	1	Ditto components contained in a wooden crate	Ditto	Ditto
10	Al cylinders for rotors-one with end caps	3	Ditto	Ditto	Ditto
11	Maraging steel cylinders (2 full length & 3 shorter ones)	5	Ditto	Ditto	Ditto
12	Molecular pumps	5	Ditto	Ditto	Ditto
13	Carbon fibre cylinders	7	Ditto	Ditto	Ditto
14	Scoop Assy. (1 with manifold)	2	Ditto	Ditto	Ditto
15	Tube (approx. 1cm x 15 cm)	8	Ditto	Ditto	Ditto
16	Inner magnet holder	28	Ditto	Ditto	Ditto
17	Ring (approx. 1 cm OD)	107	Ditto	Ditto	Ditto
18	Tube (approx. 1cm x 45cm) (scoop part)	19	**Note:- centrifuge components**	Ditto	Ditto
19	Tube (approx. 1cm x 30cm) (scoop part)	18	Ditto	Ditto	Ditto
20	Sensor holder	36	Ditto	Ditto	Ditto
21	Lower bearing spacer	10	Ditto	Ditto	Ditto
22	Upper damper spacer	6	Ditto	Ditto	Ditto
23	Upper damper (3 cm dia. x 6cm)	8	Ditto	Ditto	Ditto
24	Flange-spacer ring)	4	Ditto	Ditto	Ditto
25	Small sensor holder	6	Ditto	Ditto	Ditto
26	Scoop Assy. part (2cm OD x 4cm)	17	Ditto	Ditto	Ditto
27	Scoop Assy. part-tube (15cm Dia x 7cm)	27	Ditto	Ditto	Ditto
28	U -cup Upper damper part	5	Ditto	Ditto	Ditto
29	K-F flange upper manifold part	6	Ditto	Ditto	Ditto
30	Magnet outer holder ring (1.5 Dia x 6.5)	13	Ditto	Ditto	Ditto
31	Washer (0.5 cm Dia x 4.5cm)	29	Ditto	Ditto	Ditto
32	Washer (0.4cm Dia x 3cm	31	Ditto	Ditto	Ditto
33	Scoop ring (3 Dia x 2 cm)	9	Ditto	Ditto	Ditto
34	Lower bearing housing cover (5 cm Dia x 1.5 cm)	3	Ditto	Ditto	Ditto

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35	Ring (8 cm Dia x 1cm)	1	Ditto	Ditto	Ditto
36	Lower damper spacer	2	Ditto	Ditto	Ditto
37	Ring (2 cm Dia x 1cm)	4	Ditto	Ditto	Ditto
38	Rocker arm	20	Ditto	Ditto	Ditto
39	Pin for assembling (Lower Assy.) (0.3 cm Dia x4 cm)	18	Ditto	Ditto	Ditto
40	Spacer (0.6 cm x 0.2 cm)	55	Ditto	Ditto	Ditto
41	Tubes for scoop Assy. Al (1 cm Dia x 84)	10	Ditto	Ditto	Ditto
42	Tubes for scoop Assy. Al (1 cm Dia x 74 cm)	20	Ditto	Ditto	Ditto
43	Tubes for scoop Assy. Al (1.5 cm Dia x 35 cm)	23	Ditto	Ditto	Ditto
44	Tubes for scoop Assy. Al (1.4 cm Dia x 50 cm)	5	Ditto	Ditto	Ditto
45	Rings (10.5 cm OD x 1 cm) Motor coil	5	Ditto	Ditto	Ditto
46	Cu scoop material (straight) (0.4-0.6 x cm) (tapered)	20	**Note:- centrifuge components**	Ditto	Ditto
47	Motor stator spacer (approx. 1.3 cm x 1.3 cm)	80	Ditto	Ditto	Ditto
48	Tube (tails pipe for scoop assy.) (2.2 Dia x 20)	22	Ditto	Ditto	Ditto
49	Maraging steel rotor top cap	38	Ditto	Ditto	Ditto
50	Carbon Machine top baffle	7	Ditto	Ditto	Ditto
51	2Carbon machine top cap	10	Ditto	Ditto	Ditto
52	Carbon machine bottom cap	1	Ditto	Ditto	Ditto
53	Aluminium top rotating magnet holder (small)	13	Ditto	Ditto	Ditto
54	Aluminium bottom damper skin	76	Ditto	Ditto	Ditto
55	Aluminium top roating magnet holder (large)	6	Ditto	Ditto	Ditto
56	Bottom damper housing	25	Ditto	Ditto	Ditto
57	Spacer flange	16	Ditto	Ditto	Ditto
58	Top damper housing	9	Ditto	Ditto	Ditto
59	Bottom damper cover	14	Ditto	Ditto	Ditto
60	Adjusting screw	21	Ditto	Ditto	Ditto
61	parts of scoop assembly	19	Ditto	Ditto	Ditto
62	Pivot holder (brass)	18	Ditto	Ditto	Ditto
63	Maraging steel top rotating magnet holder	41	Ditto	Ditto	Ditto

64	Feed shroud	66	Ditto	Ditto	Ditto
65	Feed input flange	47	Ditto	Ditto	Ditto
66	Bottom bearing flange	22	Ditto	Ditto	Ditto
67	Feed port	24	Ditto	Ditto	Ditto
68	Top scoop holder	27	Ditto	Ditto	Ditto
69	AlNCo magnet holder	43	Ditto	Ditto	Ditto
70	Part of top scoop	54	Ditto	Ditto	Ditto
71	Bottom scoop boss	24	Ditto	Ditto	Ditto
72	Washer	18	Ditto	Ditto	Ditto
73	Top damper adjusting screw	60	Ditto	Ditto	Ditto
74	Part of lower damper	30	Ditto	Ditto	Ditto
75	AlNCo magnets	84	Ditto	Ditto	Ditto
76	Co Sm magnets	49	Ditto	Ditto	Ditto
77	Gas manifold	82	Ditto	Ditto	Ditto
78	Transport shield for protection	1	Ditto	Ditto	Ditto
79	Aluminium bottom flange	16	**Note:- centrifuge components**	Ditto	Ditto

(Al-Tarmiya Equipments)

er no.	**Item Description**	**Qty.**	**Notes**	**Team No.**	**Date**
1	Special filters	169	Totally destroyed	7 th IAEA	11-22/1 1991
2	Electro magnetic enrichment disk containing (9) double rods and coils	1	Ditto	Ditto	Ditto
3	High frequency transformery	3	Ditto	Ditto	Ditto
4	Furnaces and collectors for electromagnetic rod	10	Ditto	Ditto	Ditto
5	Double rods without coils	18	Ditto	Ditto	Ditto
6	Cupper coils with (6) carriers	15	Ditto	Ditto	Ditto
7	1200 mm Vacuum Chambers Die	1	**Note:- EMIS related items were destroyed by cutting out pieces from each with a plasma torch**	Ditto	Ditto

8	1200 mm Vacuum Chambers	5	Ditto	Ditto	Ditto
9	106 mm system Chambers	1	Ditto	Ditto	Ditto
10	Small Experimental Chambers	2	Ditto	Ditto	Ditto
11	1200 mm Vacuum Ducts	2	Ditto	Ditto	Ditto
12	Misc 1200 and 600 mm Vacuum Chamber Cones	19	Ditto	Ditto	Ditto

(Al-Atheer Equipments)

Ser no.	Item Description	Qty.	Notes	Team No.	Date
1	Large cold isostatic press	1	Totally destroyed	12 th IAEA	26/5/92 - 5/6/92
2	Large hot isostatic press and 2 associated	1	Ditto	Ditto	Ditto
3	Cold isostatic press	1	Ditto	Ditto	Ditto
4	Hot isostatic press	1	Ditto	Ditto	Ditto
5	Resistance furnace	2	Ditto	Ditto	Ditto
6	Induction furnace	1	Ditto	Ditto	Ditto
7	Vacuum furnace	2	Ditto	Ditto	Ditto
8	Vacuum plasma spray system	1	Ditto	Ditto	Ditto
9	Atomospheric spray system	1	Ditto	Ditto	Ditto
10	Precision turning machine	3	Ditto	Ditto	Ditto
11	Super precision lathe machine	1	Ditto	Ditto	Ditto
12	3-axis coordinate .easuring machine	1	Ditto	Ditto	Ditto
13	Jig Grinding machine	1	Ditto	Ditto	Ditto
14	Viewing windows for high explosives	3	Ditto	Ditto	Ditto
15	High speed camera	1	Ditto	Ditto	Ditto

(ST. EST. FOR HEAVY ENGINEERING EQUIPMENT / DAURA)

Ser no.	Item Description	Qty.	Notes	Team	Date

				No.	
1	Dyes Vacuum chamber for EIMS programe	1	Completely destroyed by 8th IAEA team	7 th IAEA	11-22/10 1992
2	Dyes pressing	1	Ditto	Ditto	Ditto
3	Vacuum Chambers	1	Ditto	Ditto	Ditto
4	Equipment for cylinder belong to the flow forming mach.	1	Ditto	8 th IAEA	11-18/11 1992
5	Flow forming mach. wheels	1	Ditto	Ditto	Ditto
6	Secondary axle for rotory cylinder mach.	1	Ditto	Ditto	Ditto
7	Turning mach. fixer	1	Ditto	Ditto	Ditto
8	Filament for welding mach.	1	Ditto	Ditto	Ditto
9	Vertical balancing mach.	1	Ditto	Ditto	Ditto
10	Horizontal balancing mach.	1	Ditto	Ditto	Ditto
11	Mandril for flow forming mach.	1	Ditto	Ditto	Ditto
12	Power supply electronic cards	1	Ditto	Ditto	Ditto
13	EBW fixer	1	Ditto	Ditto	Ditto
14	Fixer for turning mach.	1	Ditto	Ditto	Ditto